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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,122	04/14/2004	Richard Rox Anderson	022727-0110	3121
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			1616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.	Applicant(s)	Applicant(s)			
		10/709,122	ANDERSON ET	ANDERSON ET AL.			
		Examiner	Art Unit				
		LUKE E. KARPINSKI	1616				
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet w	with the correspondence a	ddress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLEMENTED IN CHEVER IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by stature to receive the theorem of the mailing date of the maximum date of the mailing date of the maximum statutory period for the maximum date of	DATE OF THIS COMMUN. .136(a). In no event, however, may a d will apply and will expire SIX (6) MO te, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this ABANDONED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on 12	March 2008					
-		is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	on of Claims						
4)⊠	I)⊠ Claim(s) <u>1-34</u> is/are pending in the application.						
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	S)⊠ Claim(s) <u>1-34</u> is/are rejected.						
	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and/	or election requirement.					
Applicat	ion Papers						
9) The specification is objected to by the Examiner.							
•	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for foreig All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the pri application from the International Bures See the attached detailed Office action for a list	nts have been received. Its have been received in ority documents have bee au (PCT Rule 17.2(a)).	Application No n received in this Nationa	l Stage			
2) Notice (3) Inform	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	Paper No	v Summary (PTO-413) o(s)/Mail Date i Informal Patent Application 				

Art Unit: 1616

DETAILED ACTION

Receipt of Amendment and Arguments filed 3/12/2008 is acknowledged.

Claims

Claims 35-43 have been withdrawn by the Applicant.

Claims 1-34 are pending and under consideration in this action.

Withdrawn Claim Rejections - 35 USC § 112

The rejection of claims 1, 23, and 24 under 35 USC 112 first paragraph, are hereby withdrawn upon further consideration.

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claims 16, 20, 22, and 24-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 1616

3. Claim 16 uses the language "equal to or **greater than about** 25°C". It is unclear as to whether Applicant desires the limitation to be about 25, which could be 24, or greater than 25, which could not be less than 25, as about 25 suggests.

- 4. Claim 24 uses the same language as claim 16 and results in the same confusion.
- 5. Although Claim 26 has been amended the reasons for rejection remain. The language "greater than about" poses the same problem as "at least about 15 minutes". It is unclear as to whether Applicant desires the limitation to be about 15 minutes, which could be 14 minutes, or if Applicant desires greater than 15 minutes, which cannot be 14 minutes.
- 6. The Examiner will also interpret claims 16 and 24 to read greater than and claim 26 to read at least.

Claim 20 asserts that malignant cells are substantially destroyed. The term "substantially destroy" is a relative term which renders the claim indefinite. The term "substantially destroy" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. One of ordinary skill in the art would not be able to determine how much substantial is based on the language in the claims and the specification.

Claim 22 asserts that hair associated with hair follicles is "substantially removed".

Again the term "substantially remove" is a relative term and not defined in the specification as to particularly point out what amount of the hair is removed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Applicant Claims
- 2. Determining the scope and contents of the prior art.
- 3. Ascertaining the differences between the prior art and the claims at issue, and resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

Art Unit: 1616

not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 1-19 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,050,990 to Tankovich et al. in view of US Patent No. 5,709,654 to Klatz et al.

Applicant Claims

Applicant claims a method for protecting epithelial tissue during hair removal utilizing photodynamic therapy induced using a pre-photosensitizing agent. The method comprising: administering said pre-photosensitizing agent, preventing the metabolism of the pre-photosensitizing agent into a photosensitizing agent while still allowing the metabolism to occur at the desired treatment site, and irradiating the treatment site wherein the tissue surrounding the treatment site is substantially unaffected. Applicant claims the prevention of the metabolism is due to a temperature gradient between the treatment site and the surrounding tissue, which is due to either cooling the surrounding tissue, heating the treatment site, or both. Applicant claims different skin conditions that can be treated, different temperature ranges, and energy sources.

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

Art Unit: 1616

Tankovich et al. teach methods for protecting epithelial tissue using temperature control (col. 64, lines 58-67) as claimed in claim 1; topical application of aminolevulinic (ALA) acid for use in photodynamic therapy (col. 39, lines 58-66) as claimed in claim 33; creating a temperature gradient between epithelial tissue and a targeted treatment site (col. 63, lines 59-61 and col. 64, lines 58-67) as claimed in claim 2; creating the gradient by cooling the skin prior to irradiation and irradiating with a laser (col. 64, lines 58-67) as claimed in claims 3, 4, and 11; cooling the skin with a device containing a cooling medium, wherein the device includes a radiant energy source and at least one portion of the device is transparent, the device is couple to a light source and the cooling and irradiation take place concurrently (col. 18, lines 12-24 and col. 19, lines 38-46) as claimed in claims 5, 6, 7, 8, 10, and 11; epithelial tissue being cooled to a temperature that differs from that of the targeted treatment site by at least 5°C, wherein the epithelial tissue is cooled to equal to or less than 25°C and about 20°C to -5°C and the temperature gradient is created through the cooling the tissue surrounding the treatment site and heating the treatment site (col. 3, lines 40-56) as claimed in claims 12, 13, 14, ; and the tissue at the treatment site being heated to equal to or greater than 25°C and in the range of about 25C to 40C with a radiant energy source of light (col. 3, lines 40-54) as claimed in claims 16, and 17; and controlling tissue damage during photodynamic therapy using a chromophore to affect hair and hair ducts with skin cooling (abstract).

Ascertainment of the Difference between Scope the Prior Art and the Claims (MPEP §2141.012)

Tankovich et al. do not teach preventing the metabolism of prephotosensitizing agent through cooling, as claimed in claim 1. This deficiency in Tankovich et al. is cured by Klatz et al. Klatz et al. teach cooling the body sufficiently will inhibit metabolism and the production of free radicals, which cause tissue damage, will decrease (col. 4, lines 59-65 and col. 12, lines 62-65).

Further, Tankovich et al. do not teach the cooling medium as a solid, liquid, or gas, as claimed in claim 6. However, it is common sense that a cooling medium would have to be one of the 3 forms of matter known to man. It is also common sense that one could use any or all of the forms of matter for the use of cooling something.

Tankovich et al. also do not teach removing the contact device from the skin before the step of irradiating. However, it would have been common sense to one of ordinary skill in the art to remove any device from between an area to be irradiated and the irradiation source.

Tankovich et al. also do not teach using microwave energy, ultrasound, or radiofrequency energy as the radiation source. However, it is well known that one can use visible light, infrared light, microwave energy, ultrasound, or radiofrequency energy to transfer heat.

Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

Regarding claims 1, it would have been obvious to one of ordinary skill in the art at the time the claimed invention was made to combine the methods of Tankovich et al.

with preventing metabolism, as taught by Klatz et al. in order to produce the invention of instant claim 1.

One of ordinary skill in the art would have been motivated to do this because Tankovich et al. teach protecting skin through various methods, including cooling, and Klatz et al. teach that cooling tissue helps to protect it through lowering metabolism and slowing free radical production. Although Tankovich et al. does not teach cooling a treatment area to prevent metabolism of a protoporphyrin precursor to a protoporphyrin it would have been obvious to a skilled artisan that to combine methods of photodynamic therapy which embrace using aminolevulinic acid with the knowledge that cooling the body down slows the process of metabolism. It was well known at the time of the invention that the body naturally metabolizes aminolevulinic acid into a protoporphyrin, and that metabolism is slowed down with lower temperatures. It was also well known at the time of the invention that irradiation of a protoporphyrin causes tissue damage but that irradiation of aminolevulinic acid does not cause tissue damage. A skilled artisan would have recognized that it would be possible to prevent unwanted tissue damage by simply cooling the area surrounding the treatment site to prevent the metabolism of aminolevulinic acid into a photosensitive compound before irradiating the area intended for treatment.

Therefore it would have been obvious to utilize the metabolism slowing/free radical lowering methods of Klatz et al., with the tissue protection methods of Tankovich et al. in order to practice the invention of instant claim 1.

In regards to removing the contact device from the skin before the irradiating step; It would have been common sense to one of ordinary skill in the art to remove any device from between an area to be irradiated and the irradiation source.

In regards to using microwave energy, ultrasound, or radiofrequency energy as the radiation source; It would have been obvious to a skilled artisan that any of these forms of radiant energy could be used for the purpose of heating tissue. It is well known that one can use visible light, infrared light, microwave energy, ultrasound, or radiofrequency energy to transfer heat. It would have been obvious to a skilled artisan to use any safe available heat source to heat tissue.

The motivation to combine the references is in the fact that both references are in the same field of endeavor, which is to protect tissue from damage through temperature control of tissue. There was also a reasonable expectation of success in combining the references due to the fact that one reference teaches a photodynamic treatment, which was well known at the time and the other reference simply teaches the effect of temperature on the metabolism of aminolevulinic acid.

From the teachings of the reference, it is apparent that one of ordinary skill in the art would have had a reasonable expectation of success in producing the claimed invention. Therefore, the invention as a whole would have been prima facie obvious to one of ordinary skill in the art at the time the invention was made, as evidenced by the references, especially in the absence of evidence to the contrary.

Art Unit: 1616

2. Claims 1, 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,050,990 to Tankovich et al. in view of US Patent No. 5,709,654 to Klatz et al. as applied to claim 1 above, in further view of US Patent No. 5,955,490 to Kennedy et al.

Applicant Claims

Applicant claims all of the limitations recited above in the instant office action as well as the targeted treatment site comprising of malignant cells or sebaceous glands.

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

Tankovich et al. and Klatz et al. disclose all of the limitations recited above in the instant office action in addition to the use of a laser for the methods disclosed by Tankovich et al.

Ascertainment of the Difference Between Scope the Prior Art and the Claims (MPEP §2141.012)

Neither Tankovich et al. nor Klatz et al. teach the treatment site comprising of malignant cells or sebaceous glands.

Kennedy et al. cures the deficiency of Tankovich et al. And Klatz et al. through teaching that photodynamic therapy can be used to treat malignant cells (col. 4, lines 63-64) as well as sebaceous glands (col. 18, lines 3-9).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the teachings of Tankovich et al., Klatz et al., and Kennedy et al.

Art Unit: 1616

to use the methods disclosed in Tankovich et al. to treat malignant cells as well as sebaceous glands.

Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

The deficiencies of Tankovich et al. and Klatz et al. are overcome by Kennedy et al. because all references are in the field of photodynamic therapy and even though Tankovich et al. and Klatz et al. do not teach the treatment of malignant cells or sebaceous glands Kennedy et al. teaches that photodynamic therapy was know to be used for the treatment of malignant cells and sebaceous glands.

The motivation to combine Tankovich et al. and Klatz et al. with Kennedy et al. is in the fact that both references are in the same field of endeavor, which is using photodynamic therapy for the use in treating skin conditions. They both also teach using aminolevulinic acid as a pre-photosensitizing agent with which to treat said skin conditions. The motivation to combine Tankovich et al. with Klatz et al. is discussed above. There was a reasonable expectation of success at the time to combine the teachings of Tankovich et al., Klatz et al., and Kennedy et al. because Kennedy et al. does nothing more than teach different types of skin conditions that may be treated with the disclosed method and the type of site has no bearing on the fact that the method causes tissue damage to the targeted site.

Art Unit: 1616

3. Claims 23-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,050,990 to Tankovich et al. in view of US Patent No. 5,709,654 to Klatz et al. as applied to claim 1 above, and further in view of US Patent No. 5,114,973 to Hess et al. and US Patent No. 5,955,490 to Kennedy et al.

Applicant Claims

Applicant claims all of the limitations recited above in the instant office action as well as a chemical inhibitor being incorporated into a topical cream at certain percentage amounts and the application of the cream to a patient's skin, simultaneously and at times differing from that of the application of the pre-photosensitizing agent.

Applicant also claims a specific pre-photosensitizing agent.

Determination of the Scope and Content of the Prior Art (MPEP §2141.01)

The teachings of Tankovich et al. and Klatz et al. are delineated above.

Ascertainment of the Difference Between Scope the Prior Art and the Claims (MPEP §2141.012)

Neither Tankovich et al. et al, nor Klatz et al. disclose:

- 1) Topical application.
- 2) A chemical inhibitor concentration of greater than 0.1%.
- 3) The chemical inhibitor within a cream.
- 4) Application in conjunction with a pre-photosensitizing agent.
- 5) Aminolevulinic acid at a concentration of at least 0.1%.
- 6) Applying a chemical inhibitor and cooling the tissue to be treated.

Art Unit: 1616

7) The chemical inhibitor application having duration of at least 15 minutes.

8) A chemical inhibitor of the metabolism of a prephotosensitizing agent.

These deficiencies are cured by the following references or obviated by the teachings of Tankovich et al. together with knowledge commonly known in the art.

Kennedy et al. cures the deficiency of Tankovich et al. through the teaching of aminolevulinic acid at a concentration of at least 0.1% (col. 20, lines 49-54).

Hess et al. cures the deficiency of Tankovich et al. through the teaching of succinylacetone being an inhibitor of the second enzyme of the heme biosynthetic pathway, which is aminolevulinic acid.

Finding of Prima Facie Obviousness Rational and Motivation (MPEP §2142-2143)

The deficiency in the teachings of Tankovich et al. is cured due to the fact that Kennedy et al. teaches the limitation of a specific concentration for aminolevulinic acid. Even though Kennedy et al. does not teach specifically 0.1%, it is common in the art that experimentation is undertaken in order to optimize the specific concentration of ingredients in a composition. The deficiency of Tankovich not teaching a chemical inhibitor of a pre-photosensitizing agent is cured by Hess et al. simply by the fact that Hess et al. discloses that succinylacetone is an inhibitor of aminolevulinic acid.

It would have been obvious at the time of the invention to combine the teachings of Tankovich et al., Klatz et al., Hess et al., and Kennedy et al. to use a chemical inhibitor to prevent the metabolism of a pre-photosensitizing agent in order to prevent damage to tissue surrounding a site being treated with photodynamic therapy. The

Art Unit: 1616

motivation to combine Tankovich et al., Klatz et al., and Kennedy et al. is given above in the instant office action. Any skilled artisan dealing with photodynamic therapy and aminolevulicic acid would have been familiar with the biosynthetic pathway of heme, which is how the body transforms aminolevulinic acid into a photosensitive agent. The motivation to combine Tankovich et al. and Kennedy et al. with Hess et al. is the fact that Tankovich et al. and Kennedy et al. are both in the same field of endeavor, being photodynamic therapy, and Hess et al. teaches inhibitors to aminolevulinic acid, which is a common pre-photosensitizing agent, and is a common compound used in photodynamic therapy as disclosed within Kennedy et al.

It would have been obvious to one of ordinary skill in the art at the time of the invention to use both methods of inhibiting metabolism of a pre-photosensitizing, cooling the tissue and applying a chemical inhibitor, in order to prevent tissue damage. It is common in the medical field to use more than one method of treatment at the same time.

In regards to topical application of a chemical inhibitor within a cream, it would have been obvious to a skilled artisan at the time of the invention to apply the chemical inhibitor directly onto the tissue surrounding the treatment site. It also would have been obvious to apply the inhibitor in the form of a cosmetic cream, for ease of application because creams are conventional forms of topical compositions.

In regards to the concentration of about 0.1%, it would have been obvious to a skilled artisan that to be present in any composition the chemical inhibitor would need to have some concentration value and it is common in the art that experimentation is

Art Unit: 1616

undertaken in order to optimize the specific concentration of ingredients in a composition.

In regards to the chemical inhibitor application having duration of at least 15 minutes, it would have been obvious to one of ordinary skill in the art that the irradiation process would take at least 15 minutes and that the chemical inhibitor should remain on the tissue throughout the duration of the irradiation process.

The motivation to combine the teachings of Hess et al. with those of Tankovich et al. and Kennedy et al. is that Hess teaches inhibitors to aminolevulinic acid while the others teach the use of aminolevulinic acid for photodynamic therapy. There would have been a reasonable expectation of success in combining these references due to the fact that Tankovich et al. and Kennedy et al. cover photodynamic therapy methods and Hess et al. covers properties of a pro-drug that is commonly used in the photodynamic therapy art.

Response to Arguments

Regarding claims 16 and 24, the applicant argues that the language "greater than about" found in claims 16 and 24 is clear.

The language is indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Either the claim is "at least" the value or it is "about" the value. At least provides a static point while about provides a dynamic point with wiggle room. Therefore, it is unclear exactly what is being claimed.

Regarding claims 20 and 22, the applicant argues that the terms "substantially destroy" and "substantially remove" do not make claims 20 and 22 indefinite. The applicant further argues that "procedures involving destruction of malignant cells and removal of hair are common procedures having understood end results".

The terms "substantially destroy" and "substantially remove" would not be understood by one of ordinary skill in the art and the applicant has given no evidence that one would know how much a substantial amount is. The term substantial is an indefinite term, the amount required to meet the limitation of substantial is an amount based on the opinion of any given individual and therefore leaves these claims indefinite.

The applicant argues that Klatz et al. only teach general inhibition of metabolism through cooling and that no mention is made regarding spatially selective cooling.

These arguments are not persuasive because Klatz et al. is used to teach limiting tissue damage by lowering metabolism through cooling. Tankovich et al. teach spatially selective cooling (example 22).

In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re Jones*, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivation to

combine lies in the fact that both references teach methods of preventing damage to tissue through cooling. The procedure of limiting tissue damage is the same (cooling the tissue) and the results are the same (limited tissue damage).

In response to applicant's argument that Tankovich et al. and Klatz et al. are nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, both references teach to limiting skin damage and claim 1 clearly states "A method of protecting epithelial tissue...". Further both references are pertinent to the problem of reducing tissue damage.

The applicant further argues that Tankovich et al. to not teach preventing metabolism of an agent because examples 8 and 22 of Tankovich et al. would not and could not be combined.

Examples 8 and 22 are both to removal of hair and it would have been obvious to one of ordinary skill in the art a the time the claimed invention was made to combine 2 methods, which have the same result, and are found in the same reference, to achieve an additive effect. The argument that the 2 methods are separated by any number of columns of text is not persuasive because the reference is used as a whole.

Regarding claim 1, example 22 teaches protecting tissue during PDT, example 8 teaches administration of a pre-photosensitizing agent (ALA), inhibiting the metabolism of ALA would necessarily be practiced by the combination of the 2 methods due to the

cooling step of example 22, as evidenced by Klatz et al., and the agent would necessarily metabolize at the treatment site where irradiated because the radiation would necessarily raise the temperature, thereby allowing metabolism, and examples 8 and 22 both teach the irradiation of the treatment sites. Further, the inhibition of the metabolism of ALA would have been expected as made obvious by the combination of Tankovich et al. and Klatz et al.

In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

The applicant also argues that example 8 and 22 would not lead to desired and predicted results.

This is untrue, as both examples teach methods of hair removal, one using chemical methods and the other using physical methods. One would have not only seen that the combination was obvious but would have also seen how to combine the two methods, the most reasonable way being completely different from the method concocted by the applicant. It is well known in the art how PDT using ALA works. The ALA is excited with a specific, and known, wavelength of light. This excitation releases

a free radical which destroys the target cell. It is also known that sunlight gives off every wavelength of light, including the wavelength associated with ALA excitement. Therefore one would see that example 8 does not require sunlight but uses the sunlight as a source of the required wavelength. One would have seen that ALA (example 8) could have been applied, the skin cooled (example 22) and then irradiated with any radiation source with the wavelength associated with ALA excitement (combination of examples 8 and 22) to remove hair. Alternatively, as the applicant has suggested one could cool the non-target site while sitting in the sun. Although the applicant suggests that one may experience hypothermia, this would only hypothetically be the case if a major percentage of a patient's body was cooled and it is expected that a doctor administering the treatment would recognize this fact and limit the percentage of the body to be cooled.

Conclusion

Claims 1-34 are rejected.

No claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

Art Unit: 1616

mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Inquiries

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LUKE E. KARPINSKI whose telephone number is (571)270-3501. The examiner can normally be reached on Monday Thursday 9-4 est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann R. Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 1616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

LEK

/Mina Haghighatian/ Primary Examiner Art Unit 1616